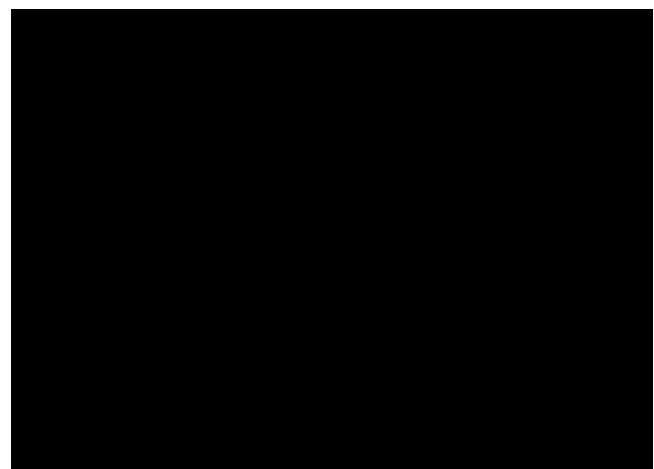


CURRICULUM VITAE

David F. Welch

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EDUCATION AND TRAINING

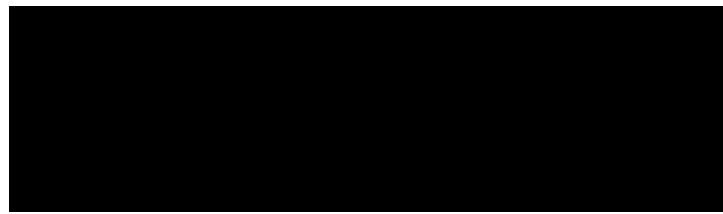
A.B. in Biological Sciences, Indiana University, Bloomington, IN
M.A. in Microbiology, Indiana State University, Terre Haute, IN
Ph.D. in Microbiology, Indiana State University, Terre Haute, IN
Completion of Postdoctoral Training in Public Health and Medical Laboratory Microbiology, University of Utah Medical Center and Affiliated Hospitals and Utah State Department of Health, Salt Lake City, UT

EMPLOYMENT

2004 – Present President, Medical Microbiology Consulting, LLC
Dallas, Texas

CLIENTS (Long-term) OF MEDICAL MICROBIOLOGY CONSULTING, LLC

2004 – Present
2004 – Present
2004 – 2006
2005 – 2012
2005 – 2010



CLINICAL LABORATORY APPOINTMENTS

2004 - Director of Microbiology, Medical City Dallas Hospital

2003 National Director of Microbiology, Laboratory Corporation of America

2001 - 2003 National Associate Director of Microbiology, Laboratory Corporation of America

1996- 2003 Regional Laboratory Director, Laboratory Corporation of America, Dallas

1986-1996 Director, Clinical Microbiology Laboratories, University Hospitals (Children's Hospital, Oklahoma Memorial

Hospital, O'Donoghue Rehabilitation Institute), Oklahoma City

1979-1986 Director, Clinical Microbiology Laboratory, Oklahoma Children's Memorial Hospital, Oklahoma City

1978-1979 Assistant Director, Clinical Microbiology Laboratories, Department of Pathology, University of Utah Medical Center, Salt Lake City

1977-1979 Consultant, Laboratory Service, Salt Lake City Veterans Administration Hospital

1975-1977 Microbiologist, Vigo County Health Department, Terre Haute, IN; Technologist,
Associated Physicians and Surgeons Clinic, Terre Haute

ACADEMIC APPOINTMENTS

1996- Present Clinical Associate Professor of Pathology, University of Texas Southwestern Medical Center, Dallas

1986-1996 Associate Professor of Pediatrics, with tenure, University of Oklahoma College of Medicine; Clinical Faculty, College of Health, Oklahoma City

1979-1986 Assistant Professor of Pediatrics, University of Oklahoma College of Medicine, Oklahoma City

1977-1979 Clinical Microbiology Fellow, Department of Pathology, University of Utah Medical Center, Salt Lake City

1975-1977 Graduate Student/University Fellow, Indiana State University, Doctoral Thesis (Studies of superoxide dismutase in *Listeria monocytogenes*)

1972-1975 Graduate Student/Research Assistant, Indiana State University, Masters Thesis (*In vivo* studies of *Listeria monocytogenes*)

BOARD CERTIFICATION

Diplomate, American Board of Medical Microbiology (1983)

PROFESSIONAL SOCIETIES

Academy of Clinical Laboratory Physicians and Scientists
American Society for Microbiology
American Society of Rickettsiology
Oklahoma Infectious Diseases Society
Texas Society of Clinical Microbiology
Southwest Association of Clinical Microbiology, Charter Member (Editor-in-chief,
SWACM Newsletter, 1985-1995)

ADVISORY RESPONSIBILITIES

NCCLS Subcommittee on Principles and Procedures for Blood Cultures 2003 – 2004
Environmental Protection Agency 2007
NCCLS Subcommittee on Antimicrobial Susceptibility Testing 2003 - 2006
Infection Control Committee, Medical City Dallas Hospital (1996-2003)
American Society for Microbiology PSAB Bioterrorism Response Plan (201-2003)
American Red Cross Transplantation Services, (1984-1992)
Board of Directors, Southwest Association of Clinical Microbiology (1983-1999)
Publications Committee, Southwest Association of Clinical Microbiology (1984-1995)
Lederle Laboratories (December, 1993)
International Advisory Board for Conference on Emerging Zoonoses, Centers for Disease Control (1995-1996)

AWARDS/HONORS

- University Fellow, Indiana State University, 1976
- Distinguished Service, Southwest Association of Clinical Microbiology, 1989
- ASM Foundation for Microbiology Lectures Program, 1990
- Fellow, American Academy of Microbiology, 1990
- Louis Weinstein Award, 1992
- President, Southwestern Association of Clinical Microbiology, 1998, 2005

Nominated, Charles C. Shepard Science Award, CDC/ATSDR, 1999

NATIONAL APPOINTMENTS

NCCLS Working Group on Susceptibility Testing of Fastidious Organisms 2003- 06

NIH Infectious Diseases and Microbiology SBIR Study Section, 2000 – 2010

NIH Special Review Committee, NIAID, March 1990

Representative of American Academy of Microbiology to the American Board of Medical Microbiology, 1991-1997

Representative of Lab Practices Committee, Public and Scientific Affairs Board, ASM, to multidrug resistant tuberculosis meeting, Centers for Disease Control, Atlanta, Georgia, January 1992

Consensus Conference, Microbiology and infectious Disease in Cystic Fibrosis, CF Foundation, May 1994

EDITORIAL ACTIVITIES

Editorial Board

Journal of Clinical Microbiology (1996 – 1999; 2000 – 2003; 2004-2007; 2010-)

Manuscript Reviewer

European Journal of Clinical Microbiology and Infectious Diseases

Clinical Infectious Diseases

The New England Journal of Medicine

Annals of Saudi Medicine

Molecular and Cellular Probes

Journal of Infectious Diseases

Journal of the American Medical Association

PUBLICATIONS

Original Articles

Welch, D.F., and M.T. Kelly. 1979. Sputum screening by Nomarski interference contrast microscopy. *J. Clin. Microbiol.* 9:520-524.

Welch, D.F., and M.T. Kelly. 1979. Antimicrobial susceptibility testing of *Mycobacterium fortuitum* complex. *Antimicrob. Ag. Chemother.* 15:754-757.

- Welch, D.F., C.P. Sword, S.P. Brehm, and D.G. Dusanic. 1979. Relationship between superoxide dismutase and pathogenic mechanisms of *Listeria monocytogenes*. Infect. Immunity 23:863-872.
- Welch, D.F., M.T. Kelly. 1979. False positive macroscopic appearance of blood cultures in a sorbitol-containing hypertonic medium. J. Clin. Microbiol. 9:635-636.
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- Welch, D.F., S.K. Menge, and J.M. Matsen. 1980. Identification of toxigenic *Clostridium difficile* by counterimmunoelectrophoresis. J. Clin. Microbiol. 11:470-473.
- Tarpay, M.M., D.F. Welch, and M.I. Marks. 1980. Antimicrobial susceptibility testing of *Streptococcus pneumoniae* by micro-broth dilution. Antimicrob. Ag. Chemother. 18:579-581.
- Welch, D.F., and J.M. Matsen. 1980. Bactericidal activity of cefoperazone in comparison with other beta-lactam antibiotics and gentamicin. Clin. Therapeut. 3:127-129.
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- Welch, D.F., P.A. Ahlin, and J.M. Matsen. 1982. Rapid presumptive identification of *Haemophilus influenzae* using the indole spot-test. J. Clin. Microbiol. 15:216-219.
- Tarpay, M.M., D.F. Welch, H. Salari, and M.I. Marks. 1982. *In vitro* activity of antibiotics commonly used in the treatment of otitis media against *Streptococcus pneumoniae* with differing susceptibilities to penicillin. Antimicrob. Ag. Chemother. 22:145-147.

- Wright, D.N., D.F. Welch, B.A. Saxon, S.J. Clark, and J.M. Matsen. 1982. Cefoperazone: regression analysis, disk content, and disk susceptibility testing considerations. *Antimicrob. Ag. Chemother.* 22:493-498.
- Welch, D.F., and D. Hensel. 1982. Evaluation of Bactogen and Phadebact for detection of *Haemophilus influenzae* type b antigen in cerebrospinal fluid. *J. Clin. Microbiol.* 16:905-908.
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- Hensel, D., and D.F. Welch. 1984. Rapid diagnosis of meningococcemia. A case report. *Clin. Microbiol. Newslet.* 6:171-172.
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bacillary (epithelioid) angiomyomatosis, parenchymal bacillary peliosis, and persistent fever with bacteremia. Amer. J. Surg. Pathol. 16:650-657.

Spach, D.H., K.P. Callis, D.S. Paauw, Y.B. Houze, D.F. Welch, H. Rosen, D.J. Brenner. 1993. Endocarditis caused by *Rochalimaea quintana* in a patient infected with human immunodeficiency virus. J. Clin. Microbiol. 31:692-694.

Orlicek, S.L., D.F. Welch, and T.L. Kuhls. 1993. Septicemia and meningitis caused by *Helicobacter cinaedi* in a neonate. J. Clin. Microbiol. 31:569-571.

Matar, G.M., B. Swaminathan, S.B. Hunter, L.N. Slater, and D.F. Welch. 1993. Polymerase Chain Reaction-based restriction fragment length polymorphism analysis of a fragment of the ribosomal operon from *Rochalimaea* species for subtyping. J. Clin. Microbiol. 31:1730-1734.

Welch, D.F., A.P. Guruswamy, S.J. Sides, C.H. Shaw, and M.J.R. Gilchrist. 1993. Timely culture for mycobacteria which utilizes a microcolony method. J. Clin. Microbiol. 31:2178-2184.

Welch, D.F., D.M. Hensel, D.A. Pickett, V.H. San Joaquin, A. Robinson, and L.N. Slater. 1993. Bacteremia in a child due to *Rochalimaea henselae*: Practical identification of isolates in the clinical laboratory. J. Clin. Microbiol. 31:2381-2386.

Haglund, L.A., G.R. Istre, D.A. Pickett, D.F. Welch, D.P. Fine, and the Pneumococcus Study Group. 1993. Invasive pneumococcal disease in central Oklahoma: Emergence of high-level penicillin resistance and multiple antibiotic resistance. J. Infect. Dis. 168:1532-1536.

Min, K.-W., J.A. Reed, D.F. Welch, and L.N. Slater. 1994. Morphologically variable bacilli of cat scratch disease are identified by immunocytochemical labeling with antibodies to *Rochalimaea henselae*. Am. J. Clin. Pathol. 101:607-610.

Larson, A.M., M.J. Dougherty, D.J. Nowowiejski, D.F. Welch, G.M. Matar, B. Swaminathan, and M.B. Coyle. 1994. Detection of *Bartonella (Rochalimaea) quintana* by routine acridine orange staining of broth blood cultures. J. Clin. Microbiol. 32:1492-1496.

Orlicek, S.L., D.F. Welch, and T.L. Kuhls. 1994. *Helicobacter fennelliae* bacteraemia in a child with acute lymphocytic leukemia. Infect. Dis. Clin. Prac. 3:450-451, 1994.

Pickett, D.A., and D.F. Welch. 1995. Evaluation of the automated Bact-Alert system for pediatric blood culturing. Amer. J. Clin. Pathol. 103:320-323.

Jackson, D.S., D.F. Welch, D.A. Pickett, G.M. Mukwaya, and T.L. Kuhls. 1995. Suppurative infections in children caused by non-beta hemolytic members of the *Streptococcus milleri* group. Pediatr. Infect. Dis. J. 14:80-82.

Spach, D.H., A.S. Kanter, M.J. Dougherty, A.M. Larson, M.B. Coyle, D.J. Brenner, B. Swaminathan, D.F. Welch, R.K. Root, and W.E. Stamm. 1995. *Bartonella (Rochalimaea) quintana* bacteraemia in ten patients with chronic alcoholism: urban "trench fever". N. Engl. J. Med. 332:424-428.

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Wolk, D. M., E. Picton, D. Johnson, T. Davis, P. Pancholi, C. C. Ginocchio, S. Finegold, D. F. Welch, M. de Boer, D. Fuller, M. C. Solomon, B. Rogers, M. S. Mehta, and L. R. Peterson. 2009. Multicenter evaluation of the Cepheid Xpert methicillin-resistant *Staphylococcus aureus* (MRSA) test as a rapid screening method for detection of MRSA in Nares. *J. Clin. Microbiol.* 47: 758-764.

D. F. Welch and C. C. Ginocchio. Role of rapid immunochromatographic antigen testing in diagnosis of Influenza A virus 2009 H1N1 infection. 2010. *J. Clin. Microbiol.* 48: 22-25.

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Abstracts

Welch, D.F., and C.P. Sword. 1976. Comparative studies of superoxide dismutase in *Listeria monocytogenes*. *Ann. Mtg. ASM* p. 12.

Welch, D.F., S.P. Brehm, and C.P. Sword. 1977. Localization of superoxide dismutase activity in *Listeria monocytogenes*. *Ann. Mtg. ASM* p. 74.

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Welch, D.F., and M.T. Kelly. 1978. Sputum screening by direct wet mount using Nomarski interference contrast microscopy. *Intersci. Conf. Antimicrob. Ag. Chemother.* 417.

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“Case Correlations to Clinical Microbiology.” South Louisiana Clinical Microbiology Association. New Orleans, Louisiana, April 8, 1991.

“Laboratory Diagnosis of Septicemia.” Wampole National Meeting. St. Petersburg, Florida, April 29, 1991.

“Case Presentations in Clinical Microbiology II.” 91st Annual Meeting of the American Society for Microbiology, Dallas, Texas, May 8, 1991.

“Therapeutic Drug Monitoring of Antimicrobials.” San Antonio Area Clinical Chemists, San Antonio, Texas, May 15, 1991.

“Pediatric Clinical Microbiology.” Southwestern Association of Clinical Microbiology Annual Meeting, Fort Worth, Texas, October 9, 1991.

“Microbiology of Dental Infections.” Western Indiana Dental Society, Terre Haute, Indiana, October 17, 1991.

“Therapeutic Drug Monitoring of Antimicrobials.” Norman Regional Hospital, Norman, Oklahoma, November 6, 1991.

“Isolator Blood Culture Systems.” Blood Culture Systems Seminar, Chicago, Illinois, January 28, 1992.

- “Therapeutic Drug Monitoring of Antimicrobials.” South Texas CLMA and Driscoll Children’s Hospital, Corpus Christi, Texas, March 19, 1992.
- “UFOs in the Clinical Laboratory.” American Society for Microbiology, New York City Branch, Annual Meeting, New York, New York, March 27, 1992.
- “Pediatric Clinical Microbiology.” MSMT/CLMA Joint Spring Meeting, Springfield, Missouri, April 22, 1992.
- “Application of New Technologies in Clinical Microbiology.” ASMT/ASSAMT Annual Meeting, Phoenix, Arizona, April 29, 1992.
- “Update in Therapeutic Drug Monitoring of Antimicrobials.” San Antonio Area Clinical Chemists, San Antonio, Texas, May 12, 1992.
- “Case Presentations in Clinical Microbiology.” 7th Annual Symposium on Contemporary Topics in Clinical Microbiology and Infectious Diseases, SUNY, Syracuse, New York, May 21, 1992.
- “Case Presentations in Clinical Microbiology III.” 92nd Annual Meeting, American Society for Microbiology, New Orleans, Louisiana, May 28, 1992.
- “Therapeutic Drug Monitoring.” TSMT, Rio Grande District, McAllen, TX, September 19, 1992.
- “*Rochalimaea* spp. as Emerging Pathogens.” Southwestern Association of Clinical Microbiology, Annual Meeting, St. Louis, Missouri, October 2, 1992.
- “New and Unusual Agents of Bacteremia.” Eastern Pennsylvania Branch of ASM and ASTPHLD, Philadelphia, PA., October 21, 1992.
- “Detection of Common and Unusual Pathogens by the Lysis Centrifugation Methods.” ASM, Southern California Branch. San Diego, CA., October 30, 1992.
- “Staphylococcus and Streptococcus.” Updates in Clinical Microbiology, St. Mary’s Hospital, Enid, Oklahoma, November 5, 1992.
- “*Rochalimaea henselae*.” The Wichita Area Microbiology Group, Wichita, Kansas, November 19, 1992.
- “*Rochalimaea henselae*: The Agent of Cat Scratch Disease?” 6th European Congress of Clinical Microbiology and Infectious Diseases, Seville, Spain, March 30, 1993.
- “Laboratory Diagnosis of STDs.” Kansas Society for Medical Technology, Annual Meeting, Manhattan, Kansas, April 16, 1993.
- “Microbiology Update.” Clinical Laboratory Management Association, Corpus Christi, Texas, May 14, 1993.
- “Case Presentations in Clinical Microbiology IV.” 93rd Annual Meeting, American Society for Microbiology, Atlanta, Georgia, May 19, 1993.
- “*Rochalimaea* sp. Old and New Pathogens.” Texas Infectious Diseases Society, Austin, Texas, June 19, 1993.

- “Bacillary angiomatosis.” Kansas City Area Society for Microbiology, Kansas City, Missouri, September 2, 1993.
- “*Rochalimaea*-associated Diseases.” ICAAC Symposium, New Orleans, Louisiana, October 20, 1993.
- “Emerging Microbial Diseases.” Galle Medical Association, Galle, Sri Lanka, October 26, 1993.
- “Laboratory Diagnosis of Tuberculosis.” Rahuna University, Galle, Sri Lanka, October 26, 1993.
- “Emerging Microbial Diseases.” Medical Institute of Colombo, Colombo, Sri Lanka, October 27, 1993.
- “Laboratory Diagnosis of Tuberculosis.” University of Paredynia, Kandy, Sri Lanka, October 29, 1993.
- “Emerging and Resurging Problems of Tuberculosis: Rapid methods of diagnosis applicable in developed and in developing countries.” 17th Eastern Reg. Conf. on Tuberculosis and Respiratory Diseases, Bangkok, Thailand, November 4, 1993.
- “Cat Scratch Disease: The South American Connection.” Texas Area Clinical Microbiologists, Dallas, Texas, March 2, 1994.
- “Case Presentations in Clinical Microbiology.” Oklahoma-Arkansas Bi-state Medical Technology Annual Meeting, Oklahoma City, Oklahoma, April 11, 1994.
- “Unusual Pathogens.” Texas State Society of Medical Technology Annual Meeting, McCallen, Texas, April 20, “Update on Therapeutic Drug Monitoring of Antimicrobials.” Mercy Regional Medical Center, Laredo, Texas, April 21, 1994.
- “Laboratory Diagnosis of *Bartonella*-associated Diseases.” Department of Veterinary Pathobiology, Purdue University, W. Lafayette, Indiana, April 28, 1994.
- “Emerging Infectious Diseases: *Bartonella*.” 94th General Meeting of the American Society for Microbiology, Las Vegas, Nevada, May 25, 1994.
- “Case Presentations in Clinical Microbiology V.” 94th General Meeting of the American Society for Microbiology, Las Vegas, Nevada, May 26, 1994.
- “UFOs in the Clinical Laboratory.” Oregon State Society of Medical Technology, Newport, Oregon, May 27, 1994.
- “What’s New in Poop.” Northeast Association for Clinical Microbiology and Infectious Disease, Danvers, Massachusetts, June 15, 1994.
- “Is It Clinically Relevant?” Northeast Association for Clinical Microbiology and Infectious Disease, Danvers, Massachusetts, June 15, 1994.
- “TB Techs Do It with Culture and Sensitivity.” Northeast Association for Clinical Microbiology and Infectious Disease, Danvers, Massachusetts, June 16, 1994.
- “Case Studies - Mysteries with the Masters.” Northeast Association for Clinical Microbiology and Infectious Disease, Danvers, Massachusetts, June 16, 1994.

- “*Bartonella*-associated Diseases: Clinical Features and Laboratory Diagnosis.” 7th International Congress of Bacteriology and Applied Microbiology, International Union of Microbiological Societies, Prague, Czech Republic, July 5, 1994.
- “Cat Scratch Disease: The South American Connection.” Seminar, Department of Pathology, Georgetown University Medical Center, August 29, 1994.
- “Bacterial Infections - Unculturable Agents.” ICAAC Symposium, Orlando, Florida, October 4, 1994.
- “*Bartonella*-associated Diseases.” Leo F. Rettger Society, Connecticut Valley Branch of ASM, Hartford, Connecticut, October 20, 1994.
- “Antibiotic Resistance in Pneumococci and Enterococci.” Clinical Laboratory Management Association, Oklahoma City, Oklahoma, March 10, 1995.
- “*Bartonella*-associated Diseases.” Iowa Association for Clinical Laboratory Science, Iowa City, Iowa, April 20, 1995.
- “Current Topics in Clinical Microbiology.” Becton Dickinson Microbiology Systems Conference, Baltimore, Maryland, May 18, 1995.
- “Case Presentations in Clinical Microbiology VI.” 95th General Meeting of the American Society for Microbiology, Washington, D.C., May 24, 1995.
- “*Bartonella* Species.” American Society for Microbiology, Audioconference, September 12, 1995.
- “Streamlining Diagnostic Bacteriology.” Barton County Community College, Great Bend, Kansas, September 30, 1995.
- “Classification of *Bartonella* Species.” Eastern Pennsylvania Branch of American Society for Microbiology, Philadelphia, Pennsylvania, October 12, 1995.
- “Case Presentations in Clinical Microbiology.” 5th Symposium on Clinical Microbiology, Diagnosis and Therapy of Pathogens of Topical Importance, Berlin, Germany, November 30, 1995.
- “Diagnostic Microbiology of *Bartonella* Infections.” Clinical Microbiology and Infectious Diseases Symposium, Berlin, Germany, December 1, 1995.
- “Case Presentations in Clinical Microbiology VII.” 96th General Meeting of the American Society for Microbiology, New Orleans, LA, May 23, 1996.
- “Infectious Diseases in the Neonate.” Fifth Annual Baylor Pathology Fall Symposium, Baylor University Medical Center, Dallas, Texas, September 26, 1996.
- “Pediatric Clinical Microbiology.” Annual Meeting, Southwestern Association of Clinical Microbiology, Dallas, Texas, September 14, 1996.
- “Case Presentations in Clinical Microbiology VIII.” 97th General Meeting of the American Society for Microbiology, Miami Beach, Florida, May 17, 1997.
- “Case Presentations in Clinical Microbiology.” Oklahoma-Arkansas Bi-state Medical Technology Annual Meeting, Oklahoma City, Oklahoma, April 14, 1998.

“Case Presentations in Clinical Microbiology IX.” 98th General Meeting of the American Society for Microbiology, Atlanta, Georgia May 21, 1998.

“Antibiotic Resistance Issues:from the Lab to the Patient.” Pediatric Grand Rounds, Children’s Hospital of North Texas at Medical City Dallas, October 27, 1998.

“Case Presentations in Clinical Microbiology X.” 99th General Meeting of the American Society for Microbiology, Chicago, Illinois, June 2, 1999.

“Unusual Infectious Agents of Medical importance.” ICAAC Symposium, Chicago, Illinois December 16, 2001.

“Case Presentations in Clinical Microbiology XVII.” 106th General Meeting of the American Society for Microbiology, Orlando, Florida, May 23, 2006.